

AG Contract No. KR03-0178TRN

ADOT ECS File: JPA 02-209

**Amendment One**

Project No : SPR 557

Project: Northern Arizona University

Section: Railroad-Hwy Crossing

Cooperative Signal Research

Project

TRACS No.: R0557 15P

Budget Source Item #: N/A

**AMENDMENT NO. ONE**

**INTERGOVERNMENTAL AGREEMENT**

BETWEEN  
THE STATE OF ARIZONA  
AND  
NORTHERN ARIZONA UNIVERSITY

**THIS AGREEMENT** is entered into this date May 12 2005, **Amendment One** to JPA 02-209, AG Contract No.: KR03-0178TRN, filed with the Secretary of State under No. 25886, pursuant to Arizona Revised Statutes, Sections 11-951 through 11-954, as amended, between the STATE OF ARIZONA, acting by and through its DEPARTMENT OF TRANSPORTATION (the "State") and the ARIZONA BOARD OF REGENTS, acting by and through the NORTHERN ARIZONA UNIVERSITY, (the "University").

**I. RECITALS**

1. The State is empowered by Arizona Revised Statutes Section 28-401 to enter into this Agreement and has delegated to the undersigned the authority to execute this Agreement on behalf of the State.

2. The University is empowered by Arizona Revised Statutes Section 15-1626 to enter into this Agreement and has authorized the undersigned to execute this Agreement on behalf of the University.

**ARTICLE I., paragraph 3. is deleted and replaced in full as follows:**

3. The State and the University desire to participate in the Railroad-Highway Crossing Cooperative Signal Control Research Project-SPR-557 hereinafter referred to as the Project, as a part of University's continued work at the AZTrans Center in advanced traffic signal control algorithms. The project will functionally coordinate long-range train detection data with traffic signal timing adjustments, to improve traffic flow and safety, and to minimize congestion, for the safety and benefit of the traveling public. **The project term is being extended to October 31, 2005, per the University's letter, Exhibit "D", attached hereto and made a part hereof,** at a total program cost of \$219,500.00. The parties hereto agree the University shall be the lead agency for the Project.

**THEREFORE**, in consideration of the mutual agreements expressed herein, it is agreed as follows:

NO. 25886 #0/  
Filed with the Secretary of State  
Date Filed: 05/12/05

Janice K. Brewer  
Secretary of State

By: David D. Greencwald

**III. MISCELLANEOUS PROVISIONS**

**ARTICLE III, paragraph 2 is deleted and replaced in full as follows:**

2. This Agreement shall remain in full force and effect until October 31, 2005 or contingent upon final accounting whichever is first. However, this Agreement may be cancelled upon mutual agreement, if the proposed objectives outlined in the Agreement are not being met, with a thirty-day (30) written notice to either party.

**EXCEPT AS AMENDED HEREIN, ALL OTHER** terms and conditions of the original Agreement remain in full force and effect.

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**IN WITNESS WHEREOF**, the parties have executed this Agreement the day and year first above written.

**ARIZONA BOARD OF REGENTS**

For and on behalf of  
Northern Arizona University

**STATE OF ARIZONA**

Department of Transportation

By Wilma G. Ennenga 4/25/2005  
WILMA G. ENNENGA, Director  
Office of Grant and Contract Services

By Dale Buskirk  
DALE BUSKIRK, Division Director  
Transportation Planning Division

Exhibit "D"



NORTHERN  
ARIZONA  
UNIVERSITY

College of Engineering and Natural Sciences  
Civil & Environmental Engineering  
P. O. Box 15600 - Flagstaff, Arizona 86011-5600  
Phone: (928) 523-2880, Fax: (928) 523-2300

15 March 2005

Attn: Stephen R. Owen, P.E.  
Arizona Transportation Research Center  
2739 E Washington St.  
Phoenix, AZ 85034-1422

Ref: Railroad-Highway Crossing Cooperative Signal Research Project  
AG Contract No. KR03-0178TRN  
ADOT Project No. SPR 557-TRACS R0557 15P  
NAU Project No. EGR375T

Subj: No-Cost Schedule Extension - JPA-02-209

Dear Mr. Owen,

This is a request for a no-cost extension for the above referenced research project, being conducted by Northern Arizona University under my direction. This request is to extend the completion date for this project to 31 October 2005.

This request was approved by the Project TAC at its last meeting based on these reasons, some of which will overlap:

1. Difficulties arose in programming the VISSIM traffic simulation computer algorithm that is a critical component of this research project, which delayed all other progress on the project for five months while this problem was addressed.
2. ATRC's history is that it typically takes 4 months to write the research report and undergo all the ATRC reviews and requests for changes/additions, etc.
3. Estimate it will take three more months to finish VISSIM modeling of all cases with sufficient evidence of "proof-of-concept."
4. Estimate it will take two months to install Hardware-in-the-Loop and test it with the VISSIM model

If you need further information, please call or write.

Best Regards,

A handwritten signature in cursive script that reads "Craig Roberts".

Craig A. Roberts, Ph.D., P.E.  
Assistant Professor and Principal Investigator  
AZTrans: The Arizona Laboratory for Applied  
Transportation Research



OFFICE OF THE ATTORNEY GENERAL  
STATE OF ARIZONA

TERRY GODDARD  
ATTORNEY GENERAL

CIVIL DIVISION  
TRANSPORTATION SECTION  
WRITER'S DIRECT LINE: 602.542.8855

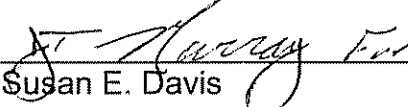
**INTERAGENCY SERVICE AGREEMENT**  
**DETERMINATION**

A.G. Contract No. KR03-0178TRN (**JPA 02-209, Amendment One**), an Agreement between public agencies, i.e., *The State of Arizona* and *Northern Arizona University*, has been reviewed pursuant to A.R.S. § 11-952, as amended, by the Undersigned Assistant Attorney General who has determined that it is in the proper form and is within the powers and authority granted to the State of Arizona.

No opinion is expressed as to the authority of the remaining Parties, other than the State or its agencies, to enter into said Agreement.

DATED: May 5, 2005

TERRY GODDARD  
Attorney General

  
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Susan E. Davis  
Assistant Attorney General  
Transportation Section

SED:mjf  
Attachment  
903840